

# Walk-in Incubator



Obromax walk-in incubator is suitable for various applications where controlled environmental conditions of temperature, humidity and illumination are required. As the name suggests, the user can walk inside the incubator for the research or desired activities. These chambers are equipped with microprocessor based control units, high/low alarms and exceptionally accurate temperature/humidity control. The door of these Incubators is made of very thick material to maintain the heat. In these incubators the roof slopes for ease of dusting and to avoid the collection of debris which often occurs on low level flat roofs.

**Salient Features:**

- Energy Efficient
- robust construction
- Low maintenance
- Reliable
- CFC free cooling (Optional)
- Customizable
- Thermal Efficient Insulation
- Calibrated test Chamber
- Triple walled Microprocessor controlled chamber
- Inner-plexi glass door for inspection
- Customized temperature & humidity
- ISI marked compressor or condensing unit
- Operating Voltage 220 V, 50 Hz, single phase
- CE certified
- Caster wheel mounted for easy portability
- Capacitive Humidity sensor
- PT-100 temperature sensor (PT-1000 sensor)

**Construction :-**

- Inner chamber is made up of high grade stainless steel SS-304 (SS-316 is optional)
- Outer chamber is made up of epoxy coated mild steel (SS-304 is optional)
- Tray is also supplied to make the shelves inside the chamber.
- Glass Wool Insulation: reduces heat losses in cabinet for better sensitivity and economical operations with minimal impact on the environment.
- Forced air circulation in the chamber by a blower ensures uniform temperature and humidity inside the chamber.
- Door: is provided with magnetic door closer and its outer body is made of powder coated MS and inner is made of SS-304.

**Heating:** is done with ISI marked strip type heaters placed around the inner chamber. The warm air is evenly distributed throughout the chamber through efficient motor fans ensuring very good temperature sensitivity

**Cooling:** We use energy efficient ISI marked high end CFC free compressors conforming to latest international standards and guidelines.

**Humidity Range :** Optional feature

**Humidification: (Optional)**

Humidity is achieved by generating of steam by immersion type water heater in water reservoir & its subsequent condensation in the circulating air.

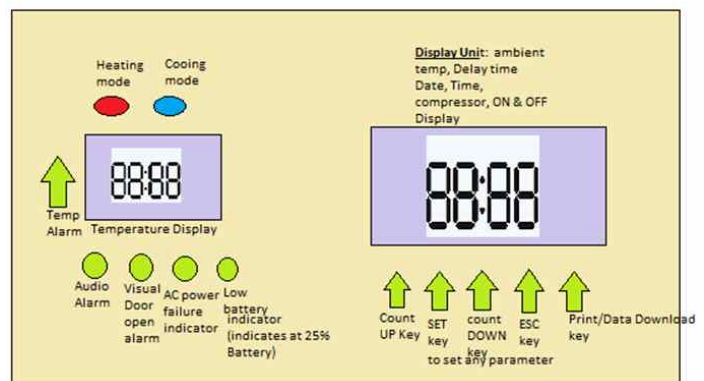
**Temperature Control:** The temperature inside our chambers is controlled through programmable micro-processor based temperature controller cum indicator.

**Temperature Range:** 2 to 60 deg C

**Temperature Sensitivity:** Temperature inside our environmental chambers is controlled with a sensitivity of + 0.5° c or better.

**Air Circulation:** circulated by ISI mark silicon winded motors which are connected to balanced blowers.

**Microcontroller Based Control Panel**



**Technical Specifications**

|                                   |                         |                                    |
|-----------------------------------|-------------------------|------------------------------------|
| Construction                      | Inner                   | SS-304                             |
|                                   | Outer                   | Powder coated MS                   |
|                                   | Door                    | Inner SS-304 & outer MS            |
| Temperature                       | Range                   | 2 to 60 deg C                      |
|                                   | Deviation               | + 0.5 degree C                     |
|                                   | Readability             | + 0.5 degree C                     |
| Shelves                           | Number                  | 2                                  |
|                                   | Dimension               | According to inner size of cabinet |
|                                   | Maximum load            | 20 kg                              |
| Humidity range                    |                         | Optional                           |
| Controller                        |                         | PID controller                     |
| Display                           |                         | LED or LCD                         |
| Serial Data Port                  |                         | RS 232                             |
| Power consumption                 |                         | 230 V, 50 Hz                       |
| Castors                           |                         | Lockable                           |
| <b>Dimensions (Inner chamber)</b> |                         |                                    |
| Optional Access.                  |                         |                                    |
|                                   | Timer                   | 1-999 hours                        |
|                                   | Inspection window       | In door                            |
|                                   | LCD display             | 2 * 24 character display           |
|                                   | Adjustable alarm limits | Visual and acoustic                |
|                                   | Real time prog.         |                                    |

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